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Application No. 09/736, 135	Prepared by	C. Majors	Tracking Number	05873946
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d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
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Complete if Known **Application Number** 09/736,135 12/15/2000 Filing Date First Named Inventor Johnson Art Unit 2851 W. Dowling Examiner Name

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(Use as many sheets as necessary)

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		JP 56-137307A	10-27-1981	Teruhito		
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		OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title No.¹ the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issi number(s), publisher, city and/or country where published.					
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		OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Amman, E.O. and Yarborough, J.M., "Optical Network Synthesis Using Birefringent Crystals V. Synthesis of Lossless Networks Containing Equal-Length Crystals and Compensators," J. Opt. Soc. America (1966) 56(12):1746-1754.	
		Sharp, G.D., et.al., "P-60: Color Switching Using Ferroelectric Liquid Crystals," Society for Information Display, International Symposium, Digest of Technical Papers, vol. XXIV, Seattle, Washington, May 18-20, 1993.	
		Kondo, et.al., "Ferroelectric Liquid Crystal Materials Applied to Guest-Host Type Displays," Ferroelectrics (1988) 85:361-373.	-
<del> · - · . · · ·</del>		Billings, BH., "A Tunable Narrow-Band Optical Filter," J. Opt. Soc. America (1947) 37:738-746.	<u> </u>
		John Wiley & Sons, "Optical Waves In Layered Media," Pochi Yeh, A. Wiley-Interscience Publication (1988).	
	ļ	Pezzaniti, J.L. and Chipman, R.A., "Phase-only modulation of a twisted nematic liquid crystal TV by use of the eigenpolarization states," Optics Letters, vol. 18, No. 18 (1993), pp. 1567-2569.	
- <u></u>	-	Shannon, P.J., et. al., "Patterned Optical Properties in PhotoPolymerized Surface-Aligned Liquid-Crystal Films", Nature (1994), vol. 368, pp. 532-533.	-
	_	Schmidt, Martin, et. al., "Photo-Generation of Linearly Polymerized Liquid Crystal Aligning Layers Comprising Novel, Integrated Optically Patterned Retarders and Color Filters," Jpn. J. Appl. Phys. (1995), vol. 34 pp. 3240-3249.	
		"Achromatic phase-shifters: 2. A quantized ferroelectric liquid-crystal system", P. Hariharan et al., 2319 Optics Communications 117 (1995) May 15, Nos. 1/2, Amsterdam, NL, pp. 13-15.	

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		OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"Achromatic retardation plates", Alan M. Title et al., SIPE vol. 307 Polarizers and Applications (1981), pp. 120-125.	
		"Improvement of Birefringent Filters. 2:Achromatic Waveplates", Alan M. Title, Jan. 1975/ vol. 14, No. 1/ Applied Optics, pp. 229-237.	
		Buhrer, Carl F., "Synthesis and tuning of high-order Solc-type birefringent filters," Applied Optics (Apr. 20, 1994) 33(12): 2249-2254.	
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		Art Unit	2851	
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		Scheffer, T.J., "New Multicolor Liquid Crystal Displays That Use a Twisted Nematic Electro-Optical Cell," J. Appl. Phys. (1973) 44 (11) :4799-4803.	
		Carlsen, W. J. and Buhrer, C.F., "Flat Passband Birefringent Wavelength-Division Multiplexers," Electronics Letters (1987) 23 (3) :106-107.	
		Wright, H. et al., "Active Filters Enable Color Imaging," Laser Focus World (May 1996) 85-90.	
		Cambridge Research & Instrumentation, Inc., "Liquid Crystal Tunable Filter," Cambridge, MA 2 pages.	
		Displaytech, Inc. (Jan. 1996), "Switchable Color Filter", Boulder, CO, 4 pages.	-
<u> </u>		Title, A.M. and Rosenberg, W.J., "Tunable Birefringent Filters," Opt. Eng. (1981) 20(6):815-823.	_
		Solc, Ivan, "Birefringent Chain Filters," J. Opt. Soc. Am. (1965) 55(6):621-625.	L
		Wu, Shin-Tson, "Birefringence dispersions of liquid crystals," Physical Review A, (1986) 33(2):1270-1274.	
		Harris, S.E. et al., "Optical Network Synthesis Using Birefringent Crystals," J. Opt. Soc. America (1964) 54(10):1267-1279.	
		Amman, E.O., "Optical Network Synthesis Using Birefringent Crystals, III. Some General Properties of Lossless Birefringent Networks", J. Opt. Soc. America (1966) 56(7):943-951.	

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		Scheffer, T.J, "New multicolor liquid crystal displays that use a twisted nematic electro-optical cell," J. Appl. Phys. (1973) 44(11):4799-4803 No Month.	
		Carlson W.J. and Buhrer, C.F., "Flat Passband Birefringent Wavelength-Division Multiplexers," Electronics Letters (1987) 23(3):106-107 No Month.	
·		Wright, H. et al., "Active filters enable color imaging," Laser Focus World (May 1996) 85-90. No Date.	
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		Billings, B.H., "A Tunable Narrow-Band Optical Filter," J. Opt. Soc. America (1947)37:738-746. No Month.	
		Title, A.M. and Rosenberg, W.J., "Tunable birefringent filters," Opt. Eng. (1981) 20(6): 815-823. No Month.	
		Solc, Ivan, "Birefringent Chain Filters," J. Opt. Soc. Am. (1965) 55(6):621-625 No Month.	
		Wu, Shin-Tson, "Birefringence dispersions of liquid crystals," Physical Review A, (1986) 33(2):1270-1274 No Month.	

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	STATEMENT BY APPLICANT		First Named Inventor	Johnson			
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	First Named Inventor	Johnson	
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_		JP 56-137307A	10-27-1981	Teruhito		
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		JP 03028823A	02-07-1991	Yasutaka et al.		
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First Named Inventor	Johnson			
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Examiner Name	W. Dowling			
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### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known				
Application Number	09/736,135			
Filing Date	12/15/2000			
First Named Inventor	Johnson			
Art Unit	2851			
Examiner Name	W. Dowling			
Attorney Docket Number	95121961.114002			

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Examiner Initials*	Cite No.	Document Number  Number-Kind Code <sup>2 (7 known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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INFO	DRMATION I	DISCLOSURE	Filing Date	12/15/2000	
STA	STATEMENT BY APPLICANT		First Named Inventor	Johnson	
			Art Unit	2851	
(Use as many sheets as necessary)		Examiner Name	Dowling		
Sheet		of	Attomey Docket Number	95121961.114002	

Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		Title, A.M., "Improvement of Birefringent Filters. 2: Achromatic Waveplates," Applied Optics (Jan. 1975) 14(1):229-237.	
		McIntyre, C.M. and Harris, S.E., "Achromatic Wave Plates for the Visible Spectrum," J. Opt. Soc. of America (Dec. 1968) 58(12): 1575-1580.	
		Koester, Charles J., "Achromatic Combinations of Half-Wave Plates," J. Opt. Soc. Of America (Apr. 1959) 49(4):405-409.	
· <del></del> -		Pancharatnam, S., "Achromatic Combinations of Birefringent Plates," Indian Academy Science Proceed. (1955) 41:130-136.	
		Pancharatnam, S., "Achromatic Combinations of Birefringent Plates, Part II. An Achromatic Quarter-Wave Plate," Indian Academy Science Proceed. (1955) 41:137-144.	
		"Achromatic phase-shifters: 2. A quantized ferroelectric liquid-crystal system", P. Hariharan et al., 2319 Optics Communications 117 (1995) May 15, Nos. 1/2, Amsterdam, NL, pp. 13-15.	
<del></del>		"Achromatic retardation plates", Alan M. Title et al., SIPE vol. 307 Polarizers and Applications (1981), pp. 120-125.	
<del> </del>		"Improvement of Birefringent Filters. 2:Achromatic Waveplates", Alan M. Title, Jan. 1975/vol. 14, No. 1/ Applied Optics, pp. 229-237.	
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	Complete if Known				
Application	Number	09/736,135			
Filing Date		12/15/2000			
First Name	d Inventor	Johnson			
Art Unit		2851			
Examiner	Name	W. Dowling			
Attorney D	locket Number	95121961.114002			

			U. S. PATENT D	OCUMENTS	
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	DRMATION D	ISCLOSURE	Filing Date	12/15/2000
STA	STATEMENT BY APPLICANT		First Named Inventor	Johnson
(Use as many sheets as necessary)			Art Unit	2851
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Sheet		of	Attorney Docket Number	95121961.114002

		OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
Examiner (	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Sharp, Gary Dean. "Chiral smectic liquid crystal tunable optical fibers and modulators", 1992.	
		Scheffer, T.J., "New multicolor liquid crystal displays that use a twisted nematic electro-optical cell, "J., Appl. Phys. (1973) 44(11):4799-4803.	
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		Solc, Ivan, "Birefringent Chain Filters, "J. Opt, Soc. Am. (1965) 55(6):621-625.	
<u> </u>		Wu, Shin-Tson, "Birefringence dispersions of liquid crystals, "Physical Review A. (1986) 33(2):1270-1274.	
		Harris, S.E., et al., "Optical Network Synthesis Using Birefringent Crystals, I. Synthesis of Lossless Networks of Equal-Length Crystal, "J. Opt. Soc. America (1964) 54(10):1267-1279.	

Examiner Date	
Signature Consi	dered (

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INFORM/	ATION DISCL	OSURE	Filing Date	12/15/2000			
<b>STATEM</b>	ENT BY APPI	LICANT	First Named Inventor	Johnson	<del></del>		
			Art Unit	2851			
(Use as many sheets as necessary)			Examiner Name	Dowling			
Sheet	of		Attorney Docket Number	95121961.114002			

		OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
Examiner Cite Initials* No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		Amman, E.O., "Optical Network Synthesis Using Birefringent Crystals, III., Some General Properties of Lossless Birefringent Networks, "J. Opt. Soc America (1966) 56(7):943-951.	
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		Y. Wang; "Surface Plasmon Tunable Color Filter and Display Device;" Society for Information Display International Symposium Digest of Technical Papers; vol. 28, pp. 63-66, May 1997	
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Examiner	Date	
Signature	Considered	<u></u>

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

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STATEMENT BY APPLICANT			First Named Inventor	Johnson			
<i>01</i>			Art Unit	2851			
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Sheet	of		Attorney Docket Number	95121961.114002			

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		Y. Nakai, "A Reflective Tri-Layer Guest-Host Color TFT-LCD:" 1997 Society for Information Display International Symposium Digest of Technical Papers; p. 83, May, 1997.	
		Bernard M. Schiffman, et al., "Birefringent Filter for Millimeter Waves," IEEE Transactions on Microwave Theory and Techniques, vol. MIT-16, No. 6, Jun. 1968.	
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# LIST OF PRIOR ART CITED BY APPLICANT

(PTO-1449)

ATTY. DOCKET NO.
CLNK-1P14C1

APPLN. SERIAL NO.
C ntinuati n of
09/311,587

APPLICANT(S)
Kristina M. J hns n and Gary D. Sharp

FILING DATE
December 15, 2000

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		U.S.	PATEN1	DOCUMENTS					_	
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	5,032,007	July 16, 1991	Silverste	in, et al.	350		335			
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	5,237,435	Aug. 17, 1993	Kuremat	su et al.	359		41			
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	Kondo, et al., "F (1988) 85:361-3		Crystal N	faterials Applied to Gue	st-Host	Туре	Displays," Fe	rroelec	trics	
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	APPLI	CANT		APPLICANT(S) Kristina M. Johnson and Gary D. Sharp						
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		U.S	S. PATEN	DOCUMENTS			-			
EXAMINER'S INITIALS	PATENT NO.	DATE		NAME	CLA	ss	SUBCLASS	FILI DA		
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	5,220,447	June 15, 1993	Yokokur	a et al.	359		93			
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EXAMINER'S INITIALS	PATENT NO.	DATE		COUNTRY	CLA	ss	SUBCLASS	Trans Yes	No.	
	WO95/26110	09SE95	PCT						<u> </u>	
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		ffman, et al., "Bir nniques," Vol. MI		ilter for Millimete 5, June 1968.	r Waves," IE	EE T	ransactions on	Micro	wave	
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SHEET 1 OF 1

#### APPLN. SERIAL NO. ATTY, DOCKET NO. **CLNK-1P14C1** C ntinuati n f LIST OF PRIOR ART CITED BY 09/311,587 **APPLICANT** APPLICANT(S) Kristina M. Johns n and Gary D. Sharp (PTO-1449) GROUP **FILING DATE** 2711 December 15, 2000 U.S. PATENT DOCUMENTS **EXAMINER'S FILING** INITIALS PATENT NO. DATE NAME CLASS SUBCLASS **DATE** 4,566,761 Jan. 28, 1986 350 401 09/13/84 Carlsen et al. 4,685,773 Carlsen et al. 350 401 10/28/85 Aug. 11, 1987 FOREIGN PATENT DOCUMENTS **EXAMINER'S** Translation INITIALS PATENT NO. DATE CLASS SUBCLASS COUNTRY OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) Bernard M. Schiffman, et al., "Birefringent Filter for Millimeter Waves," IEEE Transactions on Microwave Theory and Techniques," Vol. MIT-16, No. 6, June 1968. **EXAMINER DATE CONSIDERED**

SHEET 5 OF 5

LIST OF PRIOR ART CITED APPLICANT						APPLN. SERIAL Continuati n 09/311,587		
	2 00 2 000			APPLICANT(S) Kristina M. J hns n and Gary D. Sharp				
	(PTO-1	1449)		FILING DATE December 15, 2000		GROUP 2711		
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	5,774,264	June 30, 1998	Konno et al	l.	359	497		
	5,249,071	Sep. 28, 1993	Yoshimizu	et al.	359	63		
	5,534,949	July 9, 1996	Baron		348	742		
	5,619,355	April 8, 1997	Sharp et al.		349	78		
	5,295,009	Mar. 15, 1994	Barnik et al		359	65		
	5,235,443	Aug. 10, 1993	Barnik et al	Barnik et al. Miller		37		
	5,689,317	Nov. 18, 1997	Miller			97		
	3,967,881	July 16, 1996	Moriyama		350_	150		
	5,268,782	Dec. 7, 1993	Wenz et al.			81		
	5,559,634	Sep. 24, 1996	Weber		359	638		
	5,833,360	Nov. 10, 1998	Клох		362	293		
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	4,685,773	Aug. 11, 1987	Carlsen et a	վ	350	401	10/28/	/85
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